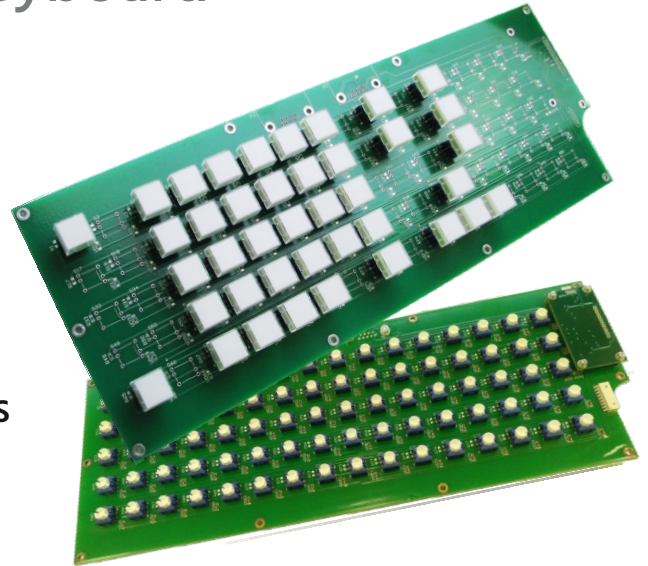


OEM Industrial Keyboard

- USB 2.0 HID 1.11 compatible
- Special connector for the quadrature components by pointing device
- Intuitive tracking algorithm
- Specially design for 3FT MEC switches
- Up to 90-Key functionality
- Variable set of switches



The BK4101 is USB compatible. The BK4101 can be plugged into any USB port or hub. The Bk4101 is a very high specification. Its compact design and durable construction ensure mobility and durability. Each kit includes keypad, switch matrix board, controller for pulse processing and cable.

The Keypad of the BK4101 is specially designed for harsh environment and special water proof design, which make it a good choice for embedded solutions. Also the BK4101 is provided for eventuality of variation set of switches by user. Maximum number of one is 90.

The BK4101 has a special connector for the quadrature components of signal by pointing device. Ballistic tracking is result by intuitive tracking algorithm to provide increased cursor resolution when tracking fast whilst retaining the original resolution for tracking accurately at slow speeds. It allows to use this device in systems with high requirements for precision targeting. The BK4101 is designed as system, where reliability, robustness and an extensive life span are essential.

Technical Data

Key Switch

- **Key type: 3FT (MEC)**
- **Number of Keys: up to 90 keys**
- **Life: 10 million cycles**
- **Travel: 1.8mm**
- **Actuation force: 2.5H**
- **Feedback: Tactile with mechanical snap**

Communication interface:

- **USB 2.0 HID 1.11 compatible**
- **Quadrature components of signal by pointing device**

Electrical Specifications

- **DC +5V +/- 10% (USB), max 200mA**

Mechanical Specifications

- **Dimensions: 347mm x 128mm x 23mm**
- **Weight: 400g**

Environmental Specifications

- **Temperature range (operation): -40..+115°C**
- **Relative humidity (operation): max. 95% non-condensing**
- **Relative humidity (storage): max. 95% non-condensing**
- **Altitude: -300m to + 3,000m**
- **Shock: 15g/11ms**
- **Bump: 10g/16ms**
- **Vibration (sinusoidal): 2g/10..200Hz**
- **Protection: IP67**

MTBF

- **400 000 h @ 40°C (derived from MIL-HDBK-217F)**

Software Support

- **Driver software can be found in the data sheet of the CPU board that you use**

Block Diagram

in the process of development

Pin Assignment - I/O Connector

in the process of development

Contact Information

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